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# ANALYTICAL ABSTRACTS

PUBLISHED BY

**The Society for Analytical Chemistry**

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# ANALYTICAL ABSTRACTS

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# ERRATA

Some errata subsequently published in the journals abstracted are included in the following list. V
the initials of given names in the Author Index and in the abstracts do not agree, the Index shoul
assumed to be correct.

VOL. 15, 1968

Index, p. 21, column 2, *replace entry for* **Blažej, A., Nátherová, L.,** and **Bučková, A.** *by*
**Blažej, A.,** and **Markusovska, E.** Determination of tyrosine by ultra-violet difference spectra,
—, **Nátherová, L.,** and **Bučková, A.** Determination of tannins in drugs, 1623.
Index, p. 131, column 2, line 23, *delete* (neé **Sandor**)

| *Abstract No.* | *Line* | |
|---|---|---|
| 7662 | 3 | *for* M. I. Aspinall *read* M. L. Aspinal |

The appropriate modification should be made to the Author Index, Vol. 15, 19

VOL. 16, 1969

Index, p. 122, column 1, line 33 *delete complete line*
Index, p. 122, column 1, *replace the entry for* **Germane** *by*
**Germane,** detmn. in mixtures with $SiH_4$, $PH_3$, $AsH_3$, $H_2S$ and H, gas chrom., 613.
of impurities in, mass spectrom., 2943.

| *Abstract No.* | *Line* | |
|---|---|---|
| 678 | 3 | *for* **4-hydroxycoumarin oxime** *read* **4-hydroxy-3-nitrosocoumarin** |
| 680 | 2 | *for* **coumarin oxime** *read* **3-nitrosocoumarin** |

Appropriate modifications should be made to the Author and Subject Inde
Vol. 16, 1969.

VOL. 17, 1969

| *Abstract No.* | *Line* | |
|---|---|---|
| 3771 | 3 | *for* P. Livillain *read* P. Levillain |

VOL. 18, 1970

| *Abstract No.* | *Line* | |
|---|---|---|
| 7 | 6 | *for* **Mansurkhozhdaev** *read* **Mansurkhodzhaev** |
| 62 | 2 | *this line should read* **with anthrapurpurin. [III.] In absolute ethanol medium.** |
| 183 | 3 | *for* **4-hydroxycoumarin oxime** *read* **4-hydroxy-3-nitrosocoumarin** |
| 194 | 11 | *for* Mordant Red 3 *read* Mordant Blue 3 |
| 418 | 3 | *for* L. Perrotti *read* L. Perotti |
| 473 | 15 | *for* corrections *read* conditions |
| 549 | 3 | *for* E. Coffin *read* D. E. Coffin |
| 574 | 22 | *this line should read* reasonable time; the response to *pp'*-DDT in the |
| 644 | 21 | *for* seveal *read* reveal |
| 761 | 11 | *for* 0·1-Macetate *read* 0·1M-acetate |
| 768 | 3 | *for* **copper(II)** *read* **cobalt(II)** |
| 768 | 18 | *for* $Cu^{II}$ *read* $Co^{II}$ |
| 879 | 16 | *for* adsorb *read* elute |
| 1067 | 2 | *for* R. Jagenburgh *read* R. Jagenburg |
| 1132 | 10 | *for* [4-$^{4}$C]Progesterone *read* [4-$^{14}$C]Progesterone |
| 1137 | 14 | *this line should read* separated by TLC on Silica gel $HF_{254}$ with benzene - |
| 1201 | 6 | *for* narcotine *read* noscapine |
| 1201 | 7 | *for* noscapine *read* narceine |
| 1255 | 2, 3 | *for* R. Ristrow *read* R. Ristow |
| 1504 | 2 | *for* **medial** *read* **media** |
| 1673 | 29 | *for* $BF_4$ *read* $BF_4^-$ |
| 1767 | 9 | *for* 1795 *read* 1766 |
| 2052 | 2 | *for* **pryophosphate** *read* **pyrophosphate** |
| 2148 | 9 | *for* of *read* or |
| 2167 | 8 | *this line should read* a suction outlet at the top of the cell, which is |
| 2224 | 5 | *for* 1969, **16** (4), 385–392 *read* 1968, **16** (4), 385–391 |
| 2227 | 8 | *for* anabasine-α'-diethylaminophenol *read* anabasine-α'-azodiethylaminophenol |
| 2328 | 2 | for *Obogaschh.* read *Obogashch.* |
| 2565 | 10 | for *R* read $R_F$ |
| 3018 | 4 | *for* A. Sipos *read* B. Sipos |
| 3071 | 13 | *for* and/of *read* and/or |
| 3075 | 11 | *for* (0·25 mm) thick) *read* (0·25 mm thick) |
| 3172 | 7 | *delete* ) *after* amine |
| 3179 | 3 | *for* Kreskhov *read* Kreshkov |

*stract*

| *No.* | *Line* | |
|---|---|---|
| 3221 | 3 | *for* **power columns** *read* **powder columns.** |
| 3231 | 4 | *for* R. Sokolowksa *read* R. Sokolowska |
| 3236 | 3 | *for* I. B. Nemerovskaya *read* I. B. Nemirovskaya |
| 3236 | 4 | *for* E. I. Zalalaev *read* E. I. Talalaev |
| 3238 | 21 | *for* polyeoxythylene *read* polyoxyethylene |
| 3325 | 19 | *for* Gilford 3000 *read* Gilford 300 |
| 3334 | 2 | *for* **ultra-centrifugal, paper** *read* **ultra-centrifugal and paper** |
| 3405 | 5 | *delete* (in Polish) |
| 3557 | 2 | *for* K. S. Olin *read* J. S. Olin |
| 3605 | 12 | *for* $10^{-11}$ to $10^{-11}$ amp. *read* $10^{-10}$ to $10^{-11}$ amp. |
| 3784 | 2 | *for* A. G. Dvostran *read* A. G. Dvortsan |
| 3869 | 13 | *for* $1{\cdot}34 \times 10_5$ *read* $1{\cdot}34 \times 10^5$ |
| 3927 | 1 | *insert* **Determination of inorganic sulphur compounds in the presence of other ions. II.** *before* **Determination** |
| 3927 | 3, 4, 5 | *delete* **II. Determination of inorganic sulphur compounds in the presence of other ions.** |
| 4056 | 4 | *for* **36** *read* **35** |
| 4334 | 2 | *for* D. Tsan *read* D. Tsaan |
| 4353 | 24 | for $R$ read $R_F$ |

# JOURNALS

The following list contains the names of journals (and their abbreviations) from which papers ha been abstracted regularly during 1970. Journals that have been omitted are those that contain only occasional analytical paper, and a number of Russian journals from which translated abstracts have be published through the medium of *Referativnyi Zhurnal*.

The abbreviations, in italics, after the full names of the journals refer to the languages in which t journals are published.

| | |
|---|---|
| *Acta chem. fenn.* | Acta Chemica Fennica [*Eng.*] |
| *Acta chem. scand.* | Acta Chemica Scandinavica [*Eng.*] |
| *Acta chim. hung.* | Acta Chimica Academiae Scientiarum Hungaricae [*Eng., Ge* |
| *Acta pharmac. tox.* | Acta Pharmacologica et Toxicologica [Koebenhavn] [*Eng.*] |
| *Acta pharm. hung.* | Acta Pharmaceutica Hungarica [*Hung.*] |
| *Acta pharm. jugosl.* | Acta Pharmaceutica Jugoslavica [*Serbo-Croat*] |
| *Acta pharm. suec.* | Acta Pharmaceutica Suecica [*Eng.*] |
| *Acta Pol. pharm.* | Acta Poloniae Pharmaceutica [*Pol.*] |
| *Afinidad* | Afinidad [*Span.*] |
| *Agric. biol. Chem.* | Agricultural and Biological Chemistry [Tokyo] [*Eng.*] |
| *AMDEL Bull.* | Bulletin of the Australian Mineral Development Laborator [*Eng.*] |
| *Am. Dyestuff Reptr* | American Dyestuff Reporter [*Eng.*] |
| *Am. ind. Hyg. Ass. J.* | American Industrial Hygiene Association Journal [*Eng.*] |
| *Am. J. clin. Path.* | American Journal of Clinical Pathology [*Eng., Fr.*] |
| *Am. Miner.* | American Mineralogist [*Eng.*] |
| *Anal. stiint. Univ. Al. I. Cuza* | Analele Stiintifice de Universitatii 'Al. I. Cuza' din Iasi [*Fr Ger., Rom.*] |
| *Analyst, Lond.* | Analyst [*Eng.*] |
| *Analyt. Biochem.* | Analytical Biochemistry [*Eng.*] |
| *Analyt. Chem.* | Analytical Chemistry [*Eng.*] |
| *Analytica chim. Acta* | Analytica Chimica Acta [*Eng., Fr., Ger.*] |
| *Analyt. Lett.* | Analytical Letters [*Eng., Fr., Ger.*] |
| *Analyzer* | Analyzer [*Eng.*] |
| *An. Asoc. quim. argent.* | Anales de la Asociacion Quimica Argentina [*Span.*] |
| *An. Bromat.* | Anales de Bromatologia [*Span.*] |
| *Angew. Chem., int. Edn* | Angewandte Chemie, International Edition [*Eng.*] |
| *Annali Chim.* | Annali di Chimica [*Ital.*] |
| *Annali Ist. sup. Sanita* | Annali dell'Istituto superiore Sanita [*Eng., Fr., Ital.*] |
| *Annls Biol. clin.* | Annales de Biologie Clinique [*Fr.*] |
| *Annls Falsif. Expert. chim.* | Annales des Falsifications et de l'Expertise Chimique [*Fr.*] |
| *Annls pharm. fr.* | Annales Pharmaceutiques Francaises [*Fr.*] |
| *An. R. Soc. esp. Fis. Quim., B* | Anales de la Real Sociedad Espanola de Fisica y Quimica, [*Span.*] |
| *Antibiotiki* | Antibiotiki [*Russ.*] |
| *Appl. Optics* | Applied Optics [*Eng.*] |
| *Appl. Spectrosc.* | Applied Spectroscopy [*Eng.*] |
| *Arch. EisenhuettWes.* | Archiv fuer das Eisenhuettenwesen [*Ger.*] |
| *Arch. Pharm., Berl.* | Archiv der Pharmazie (und Berichte der Deutschen pharm zeutischen Gesellschaft) [*Ger.*] |
| *Archs Biochem. Biophys.* | Archives of Biochemistry and Biophysics [*Eng.*] |
| *Arch. Tox.* | Archiv fuer Toxikologie [*Ger.*] |
| *Ark. Kemi* | Arkiv foer Kemi [*Eng.*] |
| *Armyan. khim. Zh.* | Armyanskii Khimicheskii Zhurnal [*Russ.*] |
| *Arzneimittel-Forsch.* | Arzneimittel-Forschung [*Ger.*] |
| *Atom. Absorption Newsl.* | Atomic Absorption Newsletter [*Eng.*] |
| *Atomn. Energ.* | Atomnaya Energiya [*Russ.*] |
| *Atmosph. Environment* | Atmospheric Environment [*Eng.*] |
| *Aust. J. Chem.* | Australian Journal of Chemistry [*Eng.*] |
| *Aust. J. exp. Biol. med. Sci.* | Australian Journal of Experimental Biology and Medic Science [*Eng.*] |
| *Azerb. khim. Zh.* | Azerbaidzhanskii Khimicheskii Zhurnal [*Russ.*] |
| *Beitr. Tabakforsch.* | Beitraege zur Tabakforschung [*Eng., Ger.*] |
| *Biochem. biophys. Res. Commun.* | Biochemical and Biophysical Research Communications [*En* |
| *Biochem. J.* | Biochemical Journal [*Eng.*] |
| *Biochim. appl.* | Biochimica Applicata [*Ital.*] |
| *Biochim. biophys. Acta* | Biochimica et Biophysica Acta [*Eng.*] |
| *Biokhimiya* | Biokhimiya [*Russ.*] |
| *B.I.S.R.A. Open Rep.* | B.I.S.R.A. Open Report [*Eng.*] |
| *Boll. chim.-farm.* | Bollettino Chimico Farmaceutico [*Ital.*] |
| *Boll. Laboratori chim. prov.* | Bollettino dei Laboratori Chimici Provinciali [*Ital.*] |
| *Boll. Soc. ital. Biol. sper.* | Bollettino della Societa Italiana di Biologia Sperimenta [*Ital.*] |
| *Brauwissenschaft* | Brauwissenschaft [*Ger.*] |
| *Brennst.-Chem.* | Brennstoff-Chemie [*Ger.*] |

| | |
|---|---|
| *J. appl. Phys. (J. Phys. D) (Ser. 2)* .. | British Journal of Applied Physics (Journal of Physics D) (Series 2) [*Eng.*] |
| *ned. J.* .. .. .. .. .. | British Medical Journal [*Eng.*] |
| *Plast.* .. .. .. .. .. | British Plastics [*Eng.*] |
| *Inst. politeh. Iasi* .. .. | Buletinul Institutului Politehnic din Iasi [*Rom.*] |
| *Agr. Chem. Insp. Stn* .. .. | Bulletin of the Agricultural Chemical Inspection Station [*Jap.*] |
| *chem. Soc. Japan* .. .. .. | Bulletin of the Chemical Society of Japan [*Eng.*] |
| *envir. Contam. Toxicol.* .. .. | Bulletin of Environmental Contamination and Toxicology [*Eng.*] |
| *Narcot.* .. .. .. .. | Bulletin on Narcotics [*Eng.*] |
| *Soc. Chim. biol.* .. .. .. | Bulletin de la Societe de Chimie Biologique [*Fr.*] |
| *Soc. chim. Fr.* .. .. .. | Bulletin de la Societe Chimique de France [*Fr.*] |
| *Trav. Soc. Pharm. Lyon* .. .. | Bulletin des Travaux de la Societe de Pharmacie de Lyon [*Fr.*] |
| *J. Biochem.* .. .. .. .. | Canadian Journal of Biochemistry [*Eng.*] |
| *J. Chem.* .. .. .. .. | Canadian Journal of Chemistry [*Eng.*] |
| *J. pharm. Sci.* .. .. .. | Canadian Journal of Pharmaceutical Science [*Eng.*] |
| *Spectrosc.* .. .. .. .. | Canadian Spectroscopy [*Eng., Fr.*] |
| *al Chem.* .. .. .. .. | Cereal Chemistry [*Eng.*] |
| *n. Engng News* .. .. .. .. | Chemical and Engineering News [*Eng.*] |
| *mia analit.* .. .. .. .. | Chemia Analityczna [*Eng., Fr., Ger., Pol.*] |
| *nicke Listy* .. .. .. .. | Chemicke Listy [*Czech*] |
| *nicke Zvesti* .. .. .... .. | Chemicke Zvesti [*Eng., Fr., Ger., Russ.*] |
| *nicky Prum.* .. .. .. .. | Chemicky Prumysl [*Czech*] |
| *mie-Ingr-Tech.* .. .. .. .. | Chemie-Ingenieur-Technik [*Ger.*] |
| *mikerzeitung—chem. Appar.* .. .. | Chemiker-Zeitung—Chemische Apparatur [*Ger.*] |
| *mistry, Taipei* .. .. .. .. | Chemistry, Taipei [*Chin.*] |
| *m. pharm. Bull., Tokyo* .. .. .. | Chemical & Pharmaceutical Bulletin [*Eng., Ger.*] |
| *m. Tech., Berl.* .. .. .. .. | Chemische Technik [*Ger.*] |
| *my Ind.* .. .. .. .. .. | Chemistry & Industry [*Eng.*] |
| *m. analyt.* .. .. .. .. | Chimie Analytique [*Fr.*] |
| *mia* .. .. .. .. .. | Chimia [*Eng., Fr., Ger.*] |
| *mica Ind., Milano* .. .. .. | Chimica e l'Industria [*Ital.*] |
| *l. Chem.* .. .. .. .. .. | Clinical Chemistry [*Eng.*] |
| *nica chim. Acta* .. .. .. .. | Clinica Chimica Acta [*Eng., Fr., Ger.*] |
| *n Czech. chem. Commun.* .. .. | Collection of Czechoslovak Chemical Communications [*Eng., Ger.*] |
| *umn* .. .. .. .. .. | Column: W. G. Pye Gas Chromatography Bulletin [*Eng.*] |
| *. Acad. bulg. Sci.* .. .. .. | Compte Rendu de l'Academie Bulgare des Sciences [*Eng., Fr., Ger.*] |
| *. hebd. Seanc. Acad. Sci., Paris* .. | Compte Rendu Hebdomadaire des Seances de l'Academie des Sciences [*Fr.*] |
| *at. chem. Acta* .. .. .. .. | Croatica Chemica Acta [*Eng., Ger.*] |
| *ka Farm.* .. .. .. .. .. | Ceskoslovenska Farmacie [*Czech, Slovak*] |
| *r. Sci.* .. .. .. .. .. | Current Science [*Eng.*] |
| *s. Abstr.* .. .. .. .. .. | Dissertation Abstracts [*Eng.*] |
| *snes pharm., Warsz.* .. .. .. | Dissertationes Pharmaceuticae [*Eng.*] |
| *kl. Akad. Nauk SSSR* .. .. .. | Doklady Akademii Nauk SSSR [*Russ.*] |
| *kl. Akad. Nauk uzbek. SSR* .. .. | Doklady Akademii Nauk Uzbekskoi SSR [*Russ.*] |
| *uble Liaison* .. .. .. .. | Double Liaison [*Fr.*] |
| *ApothZtg* .. .. .. .. | Deutsche Apotheker-Zeitung [*Ger.*] |
| *LebensmittRdsch.* .. .. .. | Deutsche Lebensmittel-Rundschau [*Ger.*] |
| *Z. ges. gerichtl. Med.* .. .. .. | Deutsche Zeitschrift fuer die gesamte gerichtliche Medizin [*Ger.*] |
| *n. Geol.* .. .. .. .. .. | Economic Geology [*Eng.*] |
| *zacilik Bult.* .. .. .. .. | Eczacilik Bulteni [*Turk.*] |
| *vir. Sci. Technol.* .. .. .. | Environmental Science & Technology [*Eng.*] |
| *zymologia* .. .. .. .. .. | Enzymologia [*Eng.*] |
| *doel Kohle* .. .. .. .. .. | Erdoel und Kohle, Erdgas, Petrochemie [*Ger.*] |
| *perientia* .. .. .. .. .. | Experientia [*Eng., Ger.*] |
| *rbe Lack* .. .. .. .. .. | Farbe und Lack [*Ger.*] |
| *rmacja pol.* .. .. .. .. | Farmacja Polska [*Pol.*] |
| *rmaco, Ed. prat.* .. .. .. .. | Farmaco, Edizione Pratica [*Fr., Ital.*] |
| *rmaco, Ed. scient.* .. .. .. .. | Farmaco, Edizione Scientifica [*Ital.*] |
| *rm. Obzor* .. .. .. .. .. | Farmaceuticky Obzor [*Czech*] |
| *serforsch. TextTech.* .. .. .. | Faserforschung und Textiltechnik [*Ger.*] |
| *tte Seifen AnstrMittel* .. .. .. | Fette, Seifen, Anstrichmittel [*Ger.*] |
| *ame Notes* .. .. .. .. .. | Flame Notes [*Eng.*] |
| *el, Lond.* .. .. .. .. .. | Fuel [*Eng.*] |
| *ochim. cosmochim. Acta* .. .. .. | Geochimica et Cosmochimica Acta [*Eng.*] |
| *okhimiya* .. .. .. .. .. | Geokhimiya [*Russ.*] |

| | |
|---|---|
| *Getreide Mehl* | Getreide und Mehl [*Ger.*] |
| *Gidrokhim. Mater.* | Gidrokhimicheskie materialy [*Russ.*] |
| *Gig. Sanit.* | Gigiena i Sanitariya [*Russ.*] |
| *G-I-T* | Glas-Instrumenten-Technik [*Eng., Ger.*] |
| *Grasas Aceit.* | Grasas y Aceites [*Span.*] |
| *Helv. chim. Acta* | Helvetica Chimica Acta [*Fr., Ger.*] |
| *Herba pol.* | Herba polonica [*Pol.*] |
| *Hilger J.* | Hilger Journal [*Eng.*] |
| *Hlth Phys.* | Health Physics [*Eng.*] |
| *Hoppe-Seyler's Z. physiol. Chem.* | Hoppe-Seyler's Zeitschrift fuer physiologische Chemie [*Ge* |
| *Hutn. Listy* | Hutnicke Listy [*Czech*] |
| *Indian J. appl. Chem.* | Indian Journal of Applied Chemistry [*Eng.*] |
| *Indian J. Biochem.* | Indian Journal of Biochemistry [*Eng.*] |
| *Indian J. Chem.* | Indian Journal of Chemistry [*Eng.*] |
| *Indian J. Dairy Sci.* | Indian Journal of Dairy Science [*Eng.*] |
| *Indian J. Pharm.* | Indian Journal of Pharmacy [*Eng.*] |
| *Indian J. pure appl. Phys.* | Indian Journal of Pure and Applied Physics [*Eng.*] |
| *Indian J. Technol.* | Indian Journal of Technology [*Eng.*] |
| *Industrie agrarie* | Industrie agrarie [*Ital.*] |
| *Industrie chim. belge* | Industrie Chimique Belge [*Flem., Fr.*] |
| *Infcion Quim. analit. pura apl. Ind.* | Informacion de Quimica Analitica, Pura y Aplicada a Industria [*Span.*] |
| *Instrums Control Syst.* | Instruments & Control Systems [*Eng.*] |
| *Int. J. appl. Radiat. Isotopes* | International Journal of Applied Radiation and Isoto [*Eng., Ger.*] |
| *Int. Sug. J.* | International Sugar Journal [*Eng.*] |
| *Israel J. Chem.* | Israel Journal of Chemistry [*Eng.*] |
| *Ital. J. Biochem.* | Italian Journal of Biochemistry [*Eng.*] |
| *Izv. Akad. Nauk kazakh. SSR, Ser. khim.* | Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya Khi cheskaya [*Russ.*] |
| *Izv. Akad. Nauk SSSR, Ser. khim.* | Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya [*Ru* |
| *Izv. sib. Otdel. Akad. Nauk SSSR* | Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR [*Ru* |
| *Izv. tomsk. politekh. Inst.* | Izvestiya Tomskogo Politekhnicheskogo Instituta im S.M. Kirova [*Russ.*] |
| *Izv. vyssh. ucheb. Zaved., Khim. khim. Tekhnol.* | Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khi cheskaya Tekhnologiya [*Russ.*] |
| *J. agric. Fd Chem.* | Journal of Agricultural and Food Chemistry [*Eng.*] |
| *J. Air Pollut. Control Ass.* | Journal of the Air Pollution Control Association [*Eng.*] |
| *J. Am. Oil Chem. Soc.* | Journal of the American Oil Chemists' Society [*Eng.*] |
| *J. Am. Wat. Wks Ass.* | Journal of the American Water Works Association [*Eng.*] |
| *Japan Analyst* | Japan Analyst [*Jap.*] |
| *J. appl. Chem., Lond.* | Journal of Applied Chemistry [*Eng.*] |
| *J. appl. Phys.* | Journal of Applied Physics [*Eng.*] |
| *J. Ass. off. analyt. Chem.* | Journal of the Association of Official Analytical Chemi [*Eng.*] |
| *J. Ass. publ. Analysts* | Journal of the Assocation of Public Analysts [*Eng.*] |
| *J. biol. Chem.* | Journal of Biological Chemistry [*Eng.*] |
| *J. chem. Educ.* | Journal of Chemical Education [*Eng.*] |
| *J. chem. Soc.* | Journal of the Chemical Society [London] [*Eng.*] |
| *J. chem. Soc. Japan, ind. Chem. Sect.* | Journal of the Chemical Society of Japan, Industrial Che istry Section [*Jap.*] |
| *J. chem. Soc. Japan, pure Chem. Sect.* | Journal of the Chemical Society of Japan, Pure Chemis Section [*Jap.*] |
| *J. Chin. chem. Soc., Taipei* | Journal of the Chinese Chemical Society [*Eng.*] |
| *J. Chromat.* | Journal of Chromatography [*Eng., Fr., Ger.*] |
| *J. chromat. Sci.* | Journal of Chromatographic Science [*Eng.*] |
| *J. Dairy Sci.* | Journal of Dairy Science [*Eng.*] |
| *J. electroanalyt. Chem.* | Journal of Electroanalytical Chemistry [*Eng.*] |
| *J. electrochem. Soc.* | Journal of the Electrochemical Society [New York] [*Eng.*] |
| *Jena Rev.* | Jena Review [*Eng.*] |
| *J. Endocr.* | Journal of Endocrinology [*Eng.*] |
| *Jernkont. Annlr* | Jernkontorets Annaler [*Swed.*] |
| *J. Fd Sci.* | Journal of Food Science [*Eng.*] |
| *J. forens. Sci.* | Journal of Forensic Sciences, U.S.A. [*Eng.*] |
| *J. forens. Sci. Soc.* | Journal of the Forensic Science Society, U.K. [*Eng.*] |
| *J. Indian chem. Soc.* | Journal of the Indian Chemical Society [*Eng.*] |
| *J. inorg. Nucl. Chem.* | Journal of Inorganic & Nuclear Chemistry [*Eng.*] |
| *J. Inst. Brew.* | Journal of the Institute of Brewing [*Eng.*] |
| *J. Inst. Fuel* | Journal of the Institute of Fuel [*Eng.*] |
| *J. Inst. Metals* | Journal of the Institute of Metals [*Eng.*] |
| *J. Inst. Petrol.* | Journal of the Institute of Petroleum [*Eng.*] |
| *J. Instn Chem., India* | Journal of the Institution of Chemists (India) [*Eng.*] |

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|---|---|
| *ron Steel Inst.* | Journal of the Iron and Steel Institute [*Eng.*] |
| *ab. clin. Med.* | Journal of Laboratory and Clinical Medicine [*Eng.*] |
| *belled Compounds* | Journal of Labelled Compounds [*Eng., Fr., Ger.*] |
| *ipid Res.* | Journal of Lipid Research [*Eng.*] |
| *. Afr. Inst. Min. Metall.* | Journal of the South African Institute of Mining and Metallurgy [*Eng.*] |
| *il Colour Chem. Ass.* | Journal of the Oil and Colour Chemists' Association [*Eng.*] |
| *pt. Soc. Am.* | Journal of the Optical Society of America [*Eng.*] |
| *aint Technol.* | Journal of Paint Technology [*Eng.*] |
| *harm. Belg.* | Journal de Pharmacie de Belgique [*Fr.*] |
| *harm. Pharmac.* | Journal of Pharmacy and Pharmacology [*Eng.*] |
| *harm. Sci.* | Journal of Pharmaceutical Sciences [*Eng.*] |
| *harm. Soc. Japan* | Journal of the Pharmaceutical Society of Japan [*Jap.*] |
| *olarogr. Soc.* | Journal of the Polarographic Society [*Eng.*] |
| *olym. Sci., A* | Journal of Polymer Science [*Eng.*] |
| *rakt. Chem.* | Journal fuer praktische Chemie [*Eng., Ger.*] |
| *adioanalyt. Chem.* | Journal of Radioanalytical Chemistry [*Eng., Fr., Ger.*] |
| *es. natn. Bur. Stand.* | Journal of Research of the National Bureau of Standards [*Eng.*] |
| *cient. Instrum.* (*J. Phys. E*) (*Ser. 2*) | Journal of Scientific Instruments (Journal of Physics E) (Series 2) [*Eng.*] |
| *ci. Fd Agric.* | Journal of the Science of Food and Agriculture [*Eng.*] |
| *oc. cosmet. Chem.* | Journal of the Society of Cosmetic Chemists [*Eng.*] |
| *oc. Leath. Trades Chem.* | Journal of the Society of Leather Trades' Chemists [*Eng.*] |
| *Vat. Pollut. Control Fed.* | Journal of the Water Pollution Control Federation [*Eng.*] |
| *nija Ind.* | Kemija u Industriji [*Serbo-Croat*] |
| *n. Wschr.* | Klinische Wochenschrift [*Ger.*] |
| *nststoff-Rdsch.* | Kunststoff-Rundschau [*Ger.*] |
| *. Delo* | Laboratornoe Delo [*Russ.*] |
| *. Pract.* | Laboratory Practice [*Eng.*] |
| *cet* | Lancet [*Eng.*] |
| *ids* | Lipids [*Eng.*] |
| *ydia* | Lloydia [*Eng.*] |
| *gy. kem. Foly.* | Magyar Kemiai Folyoirat [*Hung.*] |
| *gy. Kem. Lap.* | Magyar Kemikusok Lapja [*Hung.*] |
| *ter. Res. Stand.* | Materials Research and Standards [*Eng.*] |
| *ldr norsk farm. Selsk.* | Meddelelser fra Norsk Farmaceutisk Selskap [*Eng., Ger.*] |
| *al Finish.* | Metal Finishing [*Eng.*] |
| *alloberflaeche* | Metalloberflaeche [*Ger.*] |
| *allurgia* | Metallurgia, Manchester, U.K. [*Eng.*] |
| *allurgia ital.* | Metallurgia Italiana [*Ital.*] |
| *Chem.* | Manufacturing Chemist [*Eng.*] |
| *Chem.* | Monatshefte fuer Chemie und verwandte Teile anderer Wissenschaften [*Ger.*] |
| *rochem. J.* | Microchemical Journal [*Eng.*] |
| *rochim. Acta* | Mikrochimica Acta [*Eng., Fr., Ger.*] |
| *c. Publs natn. Bur. Stand.* | Miscellaneous Publications. National Bureau of Standards [*Eng.*] |
| *t. Geb. Lebensmittelunters. u. Hyg.* | Mitteilungen aus dem Gebiete der Lebensmitteluntersuchung und Hygiene [*Ger.*] |
| *t. Rebe Wein, Obstb. Fruechtverwert.* | Mitteilungen (Klosterneuberg). Rebe und Wein, Obstbau und Fruechtverwertung [*Ger.*] |
| *chr. Brau.* | Monatsschrift fuer Brauerei [*Ger.*] |
| *rung* | Nahrung [*Ger.*] |
| *ure, Lond.* | Nature [*Eng.*] |
| *turwissenschaften* | Naturwissenschaften [*Eng., Ger.*] |
| *uch. Trudy tashkent. Univ.* | Nauchnye Trudy Tashkentskogo Universitet [*Russ.*] |
| *tekhimiya* | Neftekhimiya [*Russ.*] |
| *h. Milk Dairy J.* [*Ned. Melk- en Zuiveltijdschr.*] | Netherlands Milk and Dairy Journal [English translation of Nederlandsch Melk- en Zuiveltijdschrift] |
| *e Huette* | Neue Huette [*Ger.*] |
| *kleonika* | Nukleonika [*Pol.*] |
| *. Jl Sci.* | New Zealand Journal of Science [*Eng.*] |
| *Dig. J. Paint Technol. Engng* | Official Digest, Journal of Paint Technology and Engineering [*Eng.*] |
| *ics Spectrosc.* [*Optika Spektrosk.*] | Optics and Spectroscopy [English translation of Optika i Spektroskopiya] |
| *ier, Darmstadt* | Papier [*Ger.*] |
| *h. Biol., Paris* | Pathologie et Biologie [*Fr.*] |
| *nt.-Pigm.-Vern.* | Peintures-Pigments-Vernis [*Fr.*] |

| | |
|---|---|
| *Perfum. essent. Oil Rec.* | Perfumery and Essential Oil Record [*Eng.*] |
| *Perkin-Elmer Instrum. News* | Perkin-Elmer Instrument News [*Eng.*] |
| *Periodica polytech.* | Periodica Polytechnica [*Eng., Ger.*] |
| *Pharm. Acta Helv.* | Pharmaceutica Acta Helvetiae [*Eng., Fr., Ger.*] |
| *Pharmazie* | Pharmazie [*Ger.*] |
| *Pharm. J.* | Pharmaceutical Journal [*Eng.*] |
| *Pharm. Weekbl. Ned.* | Pharmaceutisch Weekblad voor Nederland [*Dutch, Eng., G* |
| *Pharm. Zentralhalle Dtl.* | Pharmazeutische Zentralhalle fuer Deutschland [*Ger.*] |
| *Photoelect. Spectrom. Grp Bull.* | Photoelectric Spectrometry Group Bulletin [*Eng.*] |
| *Plaste Kautsch.* | Plaste und Kautschuk [*Ger.*] |
| *Plast. Massy* | Plasticheskie Massy [*Russ.*] |
| *Plating* | Plating [*Eng.*] |
| *Pochvovedenie* | Pochvovedenie [*Russ.*] |
| *Powder Technol.* | Powder Technology [*Eng.*] |
| *Pracovni Lek.* | Pracovni Lekarstvi [*Czech, Slovak*] |
| *Pr. Instw Hutn.* | Prace Instytutow Hutniczych [*Pol.*] |
| *Proc. Am. Soc. Brew. Chem.* | Proceedings of the American Society of Brewing Chem [*Eng.*] |
| *Proc. Indian Acad. Sci.* | Proceedings of the Indian Academy of Sciences [*Eng.*] |
| *Proc. Soc. analyt. Chem.* | Proceedings of the Society for Analytical Chemistry [*Eng* |
| *Prof. Pap. U.S. geol. Surv.* | Professional Papers. United States Geological Survey [*E* |
| *Prum. Potravin* | Prumysl Potravin [*Czech, Slovak*] |
| *Pure appl. Chem.* | Pure and Applied Chemistry [*Eng., Fr., Ger.*] |
| *Pyrethrum Post* | Pyrethrum Post [*Eng., Fr.*] |
| *Quim. Ind., Bilbao* | Quimica e Industria [*Span.*] |
| *Radiochim. Acta* | Radiochimica Acta [*Eng., Fr., Ger.*] |
| *Radiokhimiya* | Radiokhimiya [*Russ.*] |
| *Rapp. CEA* | Rapport. Commissariat a l'Energie Atomique [*Fr.*] |
| *Rass. chim.* | Rassegna Chimica [*Ital.*] |
| *Recl Trav. chim. Pays-Bas* | Recueil des Travaux Chimiques des Pays-Bas [*Eng.*] |
| *Rep. atom. Energy Commn U.S.* | Report. Atomic Energy Commission, United States [*Eng* |
| *Rep. Invest. U.S. Bur. Mines* | Report of Investigations. United States Bureau of M [*Eng.*] |
| *Rep. U.K. atom. Energy Auth.* | Report. United Kingdom Atomic Energy Authority [*Eng* |
| *Resonance Lines* | Resonance Lines [*Eng.*] |
| *Rev. Coal Tar Technol.* | Review of Coal Tar Technology [*Eng.*] |
| *Rev. scient. Instrum.* | Review of Scientific Instruments [*Eng.*] |
| *Revta Agroquim. Tecnol. Aliment.* | Revista de Agroquimica y Tecnologia de Alimentos [*Span* |
| *Revta Asoc. bioquim. argent.* | Revista de la Asociacion Bioquimica Argentina [*Span.*] |
| *Revta Chim.* | Revista de Chimie [*Rom.*] |
| *Revta Ciencia apl.* | Revista de Ciencia Aplicada [*Span.*] |
| *Revta Fac. Farm. Bioquim., Univ. S Paulo* | Revista da Faculdade de Farmacia e Bioquimica da U versidade de Sao Paulo [*Port.*] |
| *Revta Metal.* | Revista de Metalurgia [*Span.*] |
| *Revta port. Quim.* | Revista Portuguesa de Quimica [*Port., Span.*] |
| *Revta Soc. quim. Mex.* | Revista. Sociedad quimica de Mexico [*Span.*] |
| *Revta Univ. ind. Santander* | Revista de la Universidad Industrial de Santander [*Span.*] |
| *Revue roum. Chim.* | Revue Roumaine de Chimie [*Eng., Fr., Ger.*] |
| *Ricerca scient.* | Ricerca Scientifica [*Ital.*] |
| *Riechstoffe Arom. Koerperpflegemittel* | Riechstoffe, Aromen, Koerperpflegemittel [*Ger.*] |
| *Riv. ital. Sostanze grasse* | Rivista Italiana delle Sostanze Grasse [*Ital.*] |
| *Roczn. Chem.* | Roczniki Chemii [*Eng., Fr., Ger., Pol.*] |
| *Roczn. panst. Zakl. Hig.* | Rocznik Panstwowego Zakladu Higieny [*Pol.*] |
| *Ropa Uhlie* | Ropa a Uhlie [*Czech, Slovak*] |
| *S. Afr. J. agric. Sci.* | South African Journal of Agricultural Science [*Afrik., En* |
| *Sb. Trud. tsent. nauchno-issled. Inst. chern. Metall.* | Sbornik Trudov Tsentral'nogo nauchno-issledovatel'sk Instituta chernoi Metallurgii [*Russ.*] |
| *Scand. J. clin. Lab. Invest.* | Scandinavian Journal of Clinical & Laboratory Investiga [*Eng.*] |
| *Science, N.Y.* | Science [*Eng.*] |
| *Scientia pharm.* | Scientia Pharmaceutica [*Ger.*] |
| *Sci. Tools* | Science Tools [*Eng.*] |
| *Sepn Sci.* | Separation Science [*Eng.*] |
| *Soap chem. Spec.* | Soap and Chemical Specialties [*Eng.*] |
| *Soil Sci.* | Soil Science [*Eng.*] |
| *Spectrochim. Acta* | Spectrochimica Acta [*Eng., Ger.*] |
| *Spectrosc. Lett.* | Spectroscopy Letters [*Eng.*] |
| *Spectrovision* | Spectrovision [*Eng.*] |
| *Staerke* | Staerke [*Ger.*] |
| *Staub, Reinhalt. Luft* | Staub, Reinhaltung der Luft [*Ger.*] |
| *Steroids* | Steroids [*Eng.*] |
| *Studia Univ. Babes-Bolyai* | Studia Universitatis Babes-Bolyai [*Rom.*] |

*lii Cerc. Chim.* .. .. .. .. Studii si Cercetari de Chimie [*Rom.*]
*lii Cerc. Fiz.* .. .. .. .. Studii si Cercetari de Fizica [*Rom.*]
*ısk PappTidn.* .. .. .. .. Svensk Papperstidning [*Eng., Ger.*]

*ınta* .. .. .. .. .. Talanta [*Eng., Fr., Ger.*]
*PPI* .. .. .. .. .. Journal of the Technical Association of the Pulp and Paper Industry [*Eng.*]
*hnology, Sindri* .. .. .. .. Technology [*Eng.*]
*side* .. .. .. .. .. Tenside [*Ger.*]
*sskr. Kjemi Bergv. Metall.* .. .. Tidsskrift for Kjemi, Bergvesen og Metallurgi [*Nor.*]
*ns. Br. ceram. Soc.* .. .. .. Transactions of the British Ceramic Society [*Eng.*]
*ns. Instn Min. Metall.* .. .. .. Transactions of the Institution of Mining and Metallurgy [*Eng.*]
*v. Soc. Pharm. Montpellier* .. .. Travaux de la Societe de Pharmacie de Montpellier [*Fr.*]
*o. CEBEDEAU* .. .. .. Tribune du CEBEDEAU [Centre Belge d'Etude et de Documentation des Eaux] [*Fr.*]
*dy Khim. khim. Tekhnol.* [*Gor'kii*] .. Trudy po Khimii i Khimicheskoi Tekhnologii [*Russ.*]
*dy Kom. analit. Khim.* .. .. Trudy Komissii po Analiticheskoi Khimii [*Russ.*]
*dy mosk. khim.-tekhnol. Inst.* .. .. Trudy Moskovskogo Khimiko-Tekhnologicheskogo Instituta imeni D. I. Mendeleeva [*Russ.*]
*dy vses. nauchno-issled. Inst. khim. reakt.* .. .. .. .. .. Trudy Vsesoyuznogo Nauchno-issledovatel'skogo Instituta khimicheskikh Reaktivov [*Russ.*]

*en. Zap. azerb. gos. Univ., Ser. Khim. Nauk* .. .. .. .. .. Uchenye Zapiski Azerbaidzhanskogo Gosudarstvennogo Universiteta, Seriya Khimicheskikh Nauk [*Russ.*]
*en. Zap. latv. gos. Univ.* .. .. Uchenye Zapiski Latviiskogo Gosudarstvennogo Universiteta [*Russ.*]
*en. Zap. perm. gos. Univ.* .. .. Uchenye Zapiski Permskogo Gosudarstvennogo Universiteta [*Russ.*]
*r. biokhim. Zh.* .. .. .. .. Ukrainskii Biokhimicheskii Zhurnal [*Russ.*]
*r. khim. Zh.* .. .. .. .. Ukrainskii Khimicheskii Zhurnal [*Russ.*]
*ek. khim. Zh.* .. .. .. .. Uzbekskii Khimicheskii Zhurnal [*Russ.*]

*t. leningr. gos. Univ., Ser. Fiz. Khim.* Vestnik Leningradskogo Gosudarstvennogo Universiteta, Seriya Fiziki i Khimii [*Russ.*]
*t. mosk. gos. Univ., Ser. Khim.* .. Vestnik Moskovskogo Gosudarstvennogo Universiteta, Seriya Khimiya [*Russ.*]

*t. Res.* .. .. .. .. .. Water Research [*Eng.*]
*t. Sewage Wks* .. .. .. .. Water & Sewage Works [*Eng.*]

*nalyt. Chem.* .. .. .. .. Zeitschrift fuer analytische Chemie [*Eng., Ger.*]
*norg. allg. Chem.* .. .. .. Zeitschrift fuer anorganische und allgemeine Chemie [*Ger.*]
*.. Lab.* .. .. .. .. Zavodskaya Laboratoriya [*Russ.*]
*Chemie, Lpz.* .. .. .. .. Zeitschrift fuer Chemie [*Ger.*]
*Erzbergb. MetallhuettWes.* .. .. Zeitschrift fuer Erzbergbau und Metallhuettenwesen [*Ger.*]
*analit. Khim.* .. .. .. .. Zhurnal Analiticheskoi Khimii [*Russ.*]
*neorg. Khim.* .. .. .. .. Zhurnal Neorganicheskoi Khimii [*Russ.*]
*prikl. Khim., Leningr.* .. .. .. Zhurnal Prikladnoi Khimii [*Russ.*]
*prikl. Spektrosk.* .. .. .. Zhurnal Prikladnoi Spektroskopii [*Russ.*]
*klin. Chem.* .. .. .. .. Zeitschrift fuer klinische Chemie [*Ger.*]
*Lebensmitteluntersuch. u. -Forsch.* .. Zeitschrift fuer Lebensmittel-Untersuchung und -Forschung [*Ger.*]

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International Sugar Journal
Metals Abstracts
Nuclear Science Abstracts
Nutrition Abstracts and Reviews
Referativnyi Zhurnal, Biologicheskaya Khimiya, Section 30F
Referativnyi Zhurnal, Khimiya, Section 19GD
Water Pollution Abstracts
Welwyn Digest [Welwyn Hall Research Association Abstracts]
World Surface Coatings Abstracts
World Textile Abstracts

# ABBREVIATIONS

Certain abbreviations in everyday use are not included in the following list. When any doubt might arise from the use of an abbreviation or symbol the word is printed in full.

| | |
|---|---|
| alternating current | a.c. |
| ampere | amp. |
| Ångström unit | Å |
| aqueous | aq. |
| centimetre | cm |
| Colour Index (2nd Edition) | C.I. |
| concentrated | conc. |
| concentration | concn. |
| current density | c.d. |
| density, relative | $d$ or wt. per ml |
| deoxyribonucleic acid | DNA |
| dihydronicotinamide-adenine dinucleotide | $NADH_2$ (not DPNH) |
| dilute (as adjective) | dil. |
| direct current | d.c. |
| electron volt | eV |
| ethylenediaminetetra-acetate | EDTA |
| gas - liquid chromatography | GLC |
| gas - solid chromatography | GSC |
| gram | g |
| gram-molecule | mole |
| half-wave potential | $E_{\frac{1}{2}}$ |
| infra-red | i.r. |
| insoluble | insol. |
| international unit | i.u. |
| ionic strength | $I$ |
| kilogram | kg |
| kilovolt | kV |
| kilowatt | kW |
| maxim-um, -a | max. |
| microgram | $\mu$g (not $\gamma$) |
| microlitre | $\mu$l |
| micrometre (not micron) | $\mu$m (not $\mu$) |
| micromole | $\mu$mole |
| milliampere | mA |
| millicurie | mC |
| milli-equivalent | milli-equiv. |
| milligram | mg |
| millilitre | ml |
| millimetre | mm |
| millimolar | mM |
| millivolt | mV |
| minute (time) | min. |
| molar (concentration) | M |
| molecul-e, -ar | mol. |
| nanogram | ng |
| nanometre (not millimicron) | nm (not m$\mu$) |
| nicotinamide-adenine dinucleotide | NAD (not DPN) |
| nicotinamide-adenine dinucleotide phosphate | NADP (not TPN) |
| normal (concentration) | N |
| nuclear magnetic resonance | NMR |
| optical rotation | $\alpha$ |
| parts per million | p.p.m. |
| per cent. | % |
| per cent. (vol. in vol.) | % (v/v) |
| per cent. (wt. in vol.) | % (w/v) |
| per cent. (wt. in wt.) | % (w/w) |
| poly(tetrafluoroethylene) | PTFE |
| potential difference | p.d. |
| precipitate (as a noun) | ppt. |
| precipitated | pptd. |
| precipitating | pptg. |
| precipitation | pptn. |
| refractive index | $n_\lambda^t$ |
| relative band speed | $R_F$ |
| revolutions per minute | r.p.m. |
| ribonucleic acid | RNA |
| saponification value | sap. val. |
| saturated calomel electrode | S.C.E. |
| second (time) | sec. |
| soluble | sol. |
| solution | soln. |
| specific rotation | $[\alpha]_\lambda^t$ |
| square centimetre | sq. cm |
| standard temp. and pressure | s.t.p. |
| thin-layer chromatography | TLC |
| ultra-violet | u.v. |
| unit of pressure (mm Hg) | torr |
| volt | V |
| watt | W |
| weight | wt. |

In addition, the following symbols may be used in conjunction with numerical values or in mathematical expressions—

| | | | |
|---|---|---|---|
| greater than | $>$ | less than | $<$ |
| is proportional to | $\propto$ | of the order of, approximately | $\simeq$ |

Abbreviations of journal titles used in the abstracts are, in general, those of the 'World List of Scientific Periodicals' (4th edn, 1964, Butterworths, London), but all diacritical marke are omitted, and the German ä, ö and ü and the Scandinavian ø (or ö) are transliterated as ae, oe, ue and oe, respectively.

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The language in which an original paper is written is English unless otherwise specified.

The chemical nomenclature used in the abstracts is that recommended by The Chemical Society ('Handbook for Chemical Society Authors,' The Chemical Society, London, 1961), and may differ from that used in the original articles.

When possible, drugs are specified by their official B.P. or B.P.C. names, or by the Approved Names recommended by the British Pharmacopoeia Commission (8 Bulstrode Street, London, W1M 5FT).

The principal Pharmacopoeias are denoted by B.P., U.S.P. or D.A.B., together with the identifying roman numeral or year.

The names given to enzymes are those recommended by the International Union of Biochemistry ('Enzyme Nomenclature,' Elsevier Publishing Co., London, 1965).

Pesticides are named in accordance with the British Standard 1831 : 1969, 'Recommended Common Names for Pesticides' (British Standards Institution, 2 Park St., London, W1Y 4AA).

# ANALYTICAL ABSTRACTS

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## N

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*NN*′-bis-[1-(2-aminophenyl)ethylidene]ethylenedi-imine, 3127.
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1,5-bis[bis(carboxymethyl)aminomethyl]-naphthalene-2,6-diol, 3773.
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3,6-bis-(5-chloro-2-hydroxy-3-sulphophenylazo)-chromotropic acid, 1445.
3,6-bis-(4-chloro-2-phosphonophenylazo)chromotropic acid, 161, 1515.
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bithionol [bis-(3,5-dichloro-2-hydroxyphenyl) sulphide], 3980.
3-(6-bromobenzothiazol-2-ylazo)chromotropic acid, 1446.
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3-chloroperoxybenzoic acid, 1060.
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*N*-cinnamoyl-*N*-phenylhydroxylamine (*N*-phenylcinnamohydroxamic acid), 3062.
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cuprizone (biscyclohexanone oxalyldihydrazone), 2543.
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2,3-diaminopyridine, 2438.
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3,5-dichloro-*p*-benzoquinonechlorimine, 398.
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1,5-diphenyl-3-selenoformazan, 3670.
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*NN*′-diphenylthiocarbamohydroxamic acid (*N*-hydroxythiocarbanilide), 208.
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di-2-thienyl ketoxime, 786.
dithizone, Se analogue of (1,5-diphenyl-3-selenoformazan), 3670.
1,5-di-(*p*-tolyl)thiocarbazone, 68.
*N*″-dodecylbenzyldiethylenetriamine-*NNN*′*N*″-tetra-acetic acid, 61.
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3-(6-ethoxybenzothiazol-2-ylazo)chromotropic acid, 1446.
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3-(2-hydroxy-3,5-dinitrophenylazo)chromotropic acid, 2334.
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3-(2-hydroxy-3,5-dinitrophenylazo)-6-(2-sulphophenylazo)chromotropic acid, 2992.
*N*-(2-hydroxyethyl)anabasine{2-[(3-pyridyl)piperidin-1-yl]ethanol}, 2240.
3-hydroxy-4-(2-hydroxy-3,5-dinitrophenylazo)-naphthalene-2,7-disulphonic acid, 777, 3741.
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3′-hydroxy-2-mercaptoacetanilide, 2206, 2375.
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5-hydroxy-6-[3-(1-methyl-2-piperidyl)-2-pyridylazo]naphthalene-1-sulphonic acid, 5.
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2-hydroxy-1-naphthaldoxime, 3843.
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-mercaptoacetophenetidine, 3793.
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N-methylanabasine-α′-azodiethylaminophenol {diethylamino-2-[3-(1-methyl-2-piperidyl)-2-pyridylazo]phenol}, 6, 144, 151, 210, 2227.
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4,4′-methylenedi-[3-methyl-1-(2-pyridyl)pyrazol-5-ol], 832.
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phenyl 2-(4-phenylpyridyl) ketoxime, 3672.
phenyl 2-pyridyl ketoxime, 3755.
N-phenylcinnamohydroxamic acid, 3062.
5-phenyl-1,2-dithiole-3-thione, 3131.
1-phenyl-2-tetrazoline-5-thione, 960.
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Picramine CA [3-(2-hydroxy-3,5-dinitrophenylazo)chromotropic acid, Na salt], 869, 3741.
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purpurin (1,2,4-trihydroxyanthraquinone), 855.
2,2′-pyridil monoxime (di-2-pyridylglyoxal monoxime), 4038.
pyridine-2,6-dicarboxylic acid, 951.
4-(2-pyridylazo)thymol, 2436.
2-[(3-pyridyl)piperidin-1-yl]ethanol, 1495.
1-[2-(3-pyridyl)piperidin-1-yl]propan-2-ol, 1495.
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pyrrolidine-1-carbodithioic acid, $NH_4$ salt, 3919.
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1-(8-quinolylazo)-2-naphthol, 759.
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3-(8-quinolylazo)-6-(2-sulphophenylazo)chromotropic acid, 2992.
4-(2-quinolylazo)thymol, 2436.
*N*-8-quinolyltoluene-*p*-sulphonamide, 3740.
quinonechloroimide (3,5-dichloro-*p*-benzoquinonechlorimine), 398.
quinoxaline-2,3-dithiol, 2435.
rivanol (ethacridine lactate), 626.
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5-(4-sulphophenylazo)salicylic acid, 790.
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3,4′,5,7-tetrahydroxyflavone, 3904.
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2,4,6-trihydroxybenzoic acid, 3844.
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trimethylthionine, 81.
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4,4′,4″-triphenyl-2,2′:6′,2″-terpyridyl, 3978.
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